

AMENDMENT UNDER 37 C.F.R. § 1.111
USAN 09/993,623

magnetic poles extending in an axial direction and radially surrounding said rotor coil, said claw-shaped magnetic poles being magnetized into North and South poles by said magnetic flux;

a stator including a stator core provided with a plurality of slots formed so as to extend axially and be spaced circumferentially, and a stator winding mounted to said stator core;

slip rings secured to said shaft;

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brushes, the ends of which slide on the slip rings, supplying electric current to said rotor coil through said slip rings from an electric power supply;

a brush holding assembly, said brush holding assembly holding said brushes within a holding portion and provided with a cover capable of being opened to remove said brushes; and

a cap for closing an open portion of said case for removal and insertion of said brushes, said open portion being formed at a position on said case facing said cover, one of said cap and said case including means for directing airflow in the vicinity of said brushes.

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3. The alternator according to Claim 1 wherein a regulator for adjusting the magnitude of an alternating voltage generated in said stator, and a cooling plate placed in contact with said regulator, are disposed on said brush holding assembly.

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8. The alternator according to Claim 1 wherein conductors of said stator winding extend outwardly in an axial direction from an end surface of said stator core and are formed into coil ends having a uniform shape in a circumferential direction.